

Rabbit anti-Human SOS1 Polyclonal Antibody | anti-SOS1 antibody

SOS1 Antibody (Center)

CATALOG # AAA290544	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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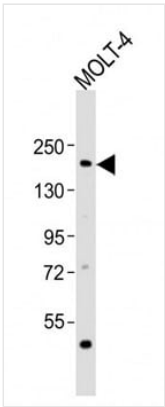
PRODUCT SYNONYMS

SOS1; Polyclonal Antibody; SOS1 Antibody (Center); Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab); Son of sevenless homolog 1; SOS-1; anti-SOS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This SOS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 934-962 amino acids from the Central region of human SOS1.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1333
Applicable Applications for anti-SOS1 antibody	ELISA, WB (Western Blot)
Function	Promotes the exchange of Ras-bound GDP by GTP (PubMed:8493579). Probably by promoting Ras activation, regulates phosphorylation of MAP kinase MAPK3 in response to EGF (PubMed:17339331). Catalytic component of a trimeric complex that participates in transduction of signals from Ras to Rac by promoting the Rac-specific guanine nucleotide exchange factor (GEF) activity (By similarity).
Tissue Location	Expressed in gingival tissues.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Anti-SOS1 Antibody (Center)at 1:2000 dilution + MOLT-4 whole cell lysates Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size: 152. 5 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-SOS1 antibody	Son of Sevenless 1 protein is an activator of ras proteins by stimulating the exchange of GDP for GTP on ras. Murine Son of Sevenless proteins have been shown to form a complex with activated EGF receptor, coupling tyrosine kinases to ras proteins. The SOS gene was originally isolated in Drosophila. Two mammalian homologues (mSOS1 and mSOS2) have been isolated from a mouse cDNA library and are expressed in a variety of mouse embryo and adult tissues. Human SOS1 and SOS2 homologs have also been isolated. The two mouse homologs are approximately 70% identical in composition. The mammalian SOS1 protein has a highly specific guanine nucleotide exchange activity towards p21ras. In epidermal growth factor stimulated cells, SOS1 interacts with SH3 domains of GRB2 and binds via SH2 domain to tyrosine 1068 of activated Epidermal Growth Factor receptor.
Product Categories/Family for anti-SOS1 antibody	Cancer; Signal Transduction
References	Roberts A.E., et.al., Nat. Genet. 39:70-74(2007).

NCBI AND UNIPROT INFORMATION

NCBI GI #	15529996
NCBI GeneID	6654
NCBI Accession #	NP_005624.2
NCBI GenBank Nucleotide #	NM_005633.3
UniProt Accession #	Q07889; A8K2G3; B4DXG2
NCBI Official Full Name	son of sevenless homolog 1
NCBI Official Synonym Full Names	SOS Ras/Rac guanine nucleotide exchange factor 1
NCBI Official Symbol	SOS1
NCBI Official Synonym Symbols	GF1; HGF; NS4; GGF1; GINGF
NCBI Protein Information	son of sevenless homolog 1
UniProt Protein Name	Son of sevenless homolog 1
UniProt Gene Name	SOS1
UniProt Synonym Gene Names	SOS-1
UniProt Entry Name	SOS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/sos1-antibody-western-blot-elisa/290544>